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Chamberlain RPD10-10

Chamberlain RPD10-10 Tubular Motor Instruction Manual

Model: RPD10-10

1. PRODUCT OVERVIEW

The Chamberlain RPD10-10 is a tubular motor designed for the automation of roller shutters. This motor is engineered for octagonal shafts with a diameter of 40 mm, providing a torque of 10 Nm. It is suitable for various roller shutter materials and sizes, including PVC shutters up to 5 m², aluminum shutters up to 4 m², and wooden shutters up to 2 m². The motor facilitates easy and quick installation due to its pre-mounted essential components, such as the adapter, driver, and bearing. End point adjustment is straightforward using the provided adjustment pin.



Figure 1: Front view of the Chamberlain RPD10-10 Tubular Motor.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing, operating, or performing maintenance on this product. Failure to follow these instructions may result in serious injury or property damage.

- Electrical Safety:** Installation must be performed by a qualified electrician in accordance with all local electrical codes and regulations. Disconnect power before any installation, maintenance, or repair work.
- Moving Parts:** Keep hands, hair, and clothing clear of moving parts during operation. Ensure no obstructions are present in the path of the roller shutter.
- Children and Pets:** Do not allow children or pets to play with or near the roller shutter system. Keep remote controls out of reach of children.
- Intended Use:** This motor is designed exclusively for driving roller shutters. Do not use it for any other purpose.
- Environmental Conditions:** Ensure the motor is protected from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- Chamberlain RPD10-10 Tubular Motor
- Adapter for 40 mm octagonal shaft (pre-mounted)
- Driver (pre-mounted)
- Bearing (pre-mounted)
- Adjustment pin for end point setting
- Instruction Manual



Figure 2: Packaging of the Chamberlain RPD10-10 Tubular Motor, showing included components.

4. SPECIFICATIONS

Specification	Value
Brand	Chamberlain
Model Name	RPD10-10
Product Dimensions (L x W x H)	62.6 x 8.5 x 8.5 cm
Item Weight	1 Kilogram
Material	Metal
Color	Blue
Shaft Diameter Compatibility	40 mm octagonal shafts
Torque	10 Nm
Power	121 W
Max. Roller Shutter Surface (PVC)	5 m ²
Max. Roller Shutter Surface (Aluminum)	4 m ²
Max. Roller Shutter Surface (Wood)	2 m ²
Input Voltage	230 V 50 Hz

5. INSTALLATION AND SETUP

This section outlines the general steps for installing the Chamberlain RPD10-10 tubular motor. It is suitable for both new constructions and retrofitting existing roller shutter systems. Ensure all safety precautions are followed.

5.1 Pre-Installation Checks

- Verify the roller shutter dimensions and weight are within the motor's specifications.
- Confirm the octagonal shaft diameter is 40 mm.
- Ensure the power supply (230V 50Hz) is available at the installation point.

5.2 Motor Installation

- Prepare the Roller Shutter Box:** Open the roller shutter box and remove the existing shaft and shutter if necessary.
- Insert Motor into Shaft:** Slide the tubular motor, with its pre-mounted adapter, driver, and bearing, into the 40 mm octagonal shaft. Ensure it fits snugly.
- Mount the Shaft:** Place the assembled shaft with the motor back into the roller shutter box, securing it with appropriate brackets and bearings.
- Attach Roller Shutter:** Connect the roller shutter curtain to the shaft using the appropriate fasteners.
- Electrical Connection:** Connect the motor's electrical cable to the power supply, ensuring correct wiring (Live, Neutral, Earth, and control wires if applicable). This step must be performed by a qualified electrician.



Figure 3: Side view of the Chamberlain RPD10-10 motor, showing the pre-mounted components for shaft integration.

5.3 Setting End Points

The motor's end points define the fully open and fully closed positions of the roller shutter. These are set using the provided adjustment pin.

1. **Identify Adjustment Screws:** Locate the two adjustment screws on the motor head. One is for the upper limit, the other for the lower limit.
2. **Set Upper Limit:** Operate the roller shutter to the desired fully open position. Insert the adjustment pin into the corresponding screw and turn it until the motor stops at the desired upper limit.
3. **Set Lower Limit:** Operate the roller shutter to the desired fully closed position. Insert the adjustment pin into the other screw and turn it until the motor stops at the desired lower limit.
4. **Test Limits:** Operate the roller shutter up and down several times to ensure the end points are correctly set and the shutter stops precisely at the desired positions. Adjust as needed.

6. OPERATION

Once installed and the end points are set, the Chamberlain RPD10-10 motor can be operated via a connected wall switch, timer, or other compatible control accessories. The motor can also be optionally converted to a radio drive system with additional Chamberlain accessories (sold separately).

- **Manual Operation (Wired Switch):** Press the 'Up' button to open the roller shutter and the 'Down' button to close it. Release the button to stop the shutter at any intermediate position.
- **Timer Operation:** If connected to a timer, program the desired opening and closing times. The motor will operate automatically according to the schedule.
- **Radio Control (Optional):** If upgraded with a radio receiver and remote control, use the remote to operate the shutter wirelessly. Refer to the specific instructions for the radio control system.



Figure 4: Example of a building equipped with automated roller shutters, demonstrating the application of the tubular motor.

7. MAINTENANCE

The Chamberlain RPD10-10 tubular motor is designed for long-term, maintenance-free operation. However, periodic checks can help ensure its continued reliability.

- **Visual Inspection:** Periodically inspect the roller shutter system for any signs of wear, damage, or obstructions. Ensure the shutter moves freely.
- **Cleaning:** Keep the roller shutter box and the visible parts of the motor clean from dust and debris. Do not use abrasive cleaners or solvents.
- **Electrical Connections:** If accessible and safe to do so (with power disconnected), periodically check electrical connections for tightness.
- **Lubrication:** The motor itself does not require lubrication. Do not attempt to lubricate internal components.

8. TROUBLESHOOTING

If you encounter issues with your Chamberlain RPD10-10 tubular motor, refer to the following common troubleshooting steps.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Motor does not respond	No power supply Faulty wiring Overload protection activated	Check power connection and circuit breaker. Verify wiring by a qualified electrician. Allow motor to cool down for 15-20 minutes.
Roller shutter stops prematurely or does not reach limits	End points incorrectly set Obstruction in shutter path	Re-adjust end points as described in Section 5.3. Remove any obstructions.
Motor makes unusual noises	Shaft misalignment Damaged components	Check shaft alignment and ensure smooth movement. Contact customer support if noises persist.

If the problem persists after attempting these solutions, please contact Chamberlain customer support.

9. WARRANTY AND SUPPORT

Chamberlain products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or visit the official Chamberlain website.

Spare Parts: Information regarding the availability of spare parts for this model is currently unavailable. Please contact Chamberlain customer support for assistance with replacement parts.

Customer Support: For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Chamberlain customer service through their official website or the contact information provided with your product.